

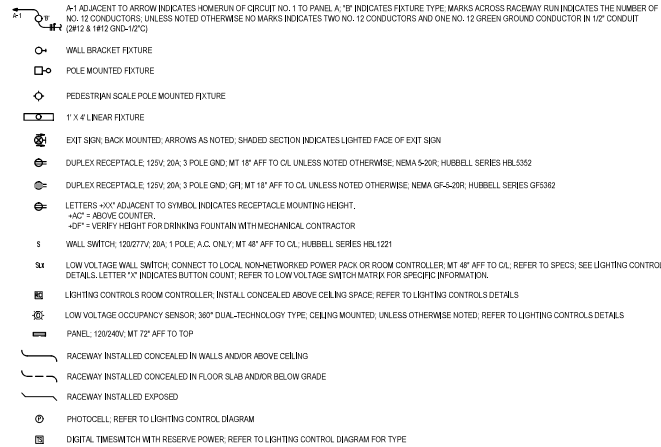
ELECTRICAL GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- B. RECEPTABLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- C. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHENING WALL FOR SWITCHES.
- D. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- E. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- F. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT GROUP AHEAD OF LOCAL SWITCH.
- G. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC. SHALL HAVE CUSTOM ENGRAVED MISCART NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- H. PROVIDE GREEN GROUND CONDUIT IN ALL CIRCUITS - SIZE PER N.E.C.
- I. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONDUIT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
- J. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA. X 18" HIGH WITH 2" ABOVE FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL.
- K. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- L. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS, ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- M. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.14. REFER TO TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DATA.
- N. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL FAULT LABELS PER NFPA FIRE ARTICLE 110.16 FOR NEW EQUIPMENT. THE OWNER SHALL PROVIDE AVAILABLE CALCULATION DATA FOR THE EXISTING EQUIPMENT IN THE ELECTRICAL SYSTEM. REFER TO TYPICAL FAULT LABEL DATA DETAIL.
- O. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C).
- P. PROVIDE LSI TRIP UNITS FOR ALL BREAKERS GREATER THAN OR EQUAL TO 200A.
- Q. PROVIDE BUSHINGS ON ALL CONDUIT.
- R. COMPLY WITH ALL LOCAL CODE LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL AGENCIES.
- S. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTABLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
- T. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, ALL NOT SO BEING REMOVED AND REPLACED AT NO COST TO THE OWNER.
- U. ALL WORK SHALL BE INSTALLED IN CONCEALED TYPE CONSTRUCTION, UNDERGROUND CONDUITS UP TO FIRST BOX IN CONCEALED CONSTRUCTION MAY BE SCH. 40X.16X. EXTERIOR EXPOSED WORK SHALL BE IM.C. BRANCH CIRCUIT CONDUIT RUN IN OPEN BUILDING ABOVE CEILING OR IN WALLS MAY BE THINWALL (EMT) CONDUIT 1/2" MIN. SIZE.
- V. ALL CONDUCTORS LESS THAN 100A. SHALL BE COPPER #2 & #10 SOLID, #12 AND LARGER STRANDED, #16 AND SMALLER TO BE 60/100 INSULATION, TYPE THHN OR THW FOR #14 AND LARGER. ALUM. CONDUCTORS MAY BE USED FOR 100A. AND LARGER ONLY WHERE USED WITH COMPRESSION TERMINATIONS.
- W. PROVIDE GROUNDING PER NATIONAL ELECTRIC CODE.
- X. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED IN PROPER WORKING ORDER, AND SHALL REPAIR WITHOUT ADDITIONAL COST, ALL WORK OR MATERIAL, WHICH MAY BE OF DEFECTS, CORROSION WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

ABBREVIATIONS

AFF - ABOVE FINISHED FLOOR
 C - CONDUIT
 CL - CENTERLINE
 EC - ELECTRICAL CONTRACTOR
 EF - EXHAUST FAN
 ENT - ELECTRICAL METALLIC TUBING
 GND - GROUND CONDUIT
 GFI - GROUND FAULT PROTECTION
 LSI - INDICATES BREAKER SETTING (LONG, SHORT, INSTANTANEOUS,
 LTO - LIGHTING
 LTS - LIGHTS
 PVC - POLYVINYL CHLORIDE CONDUIT
 REC - RECEPTACLE
 UN - UNLESS NOTED OTHERWISE
 WP - WEATHERPROOF
 NEC - NATIONAL ELECTRIC CODE (NFPA-70)
 NEPA - NATIONAL FIRE PROTECTION ASSOCIATION
 TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSION

ELECTRICAL LEGEND



LIGHTING FIXTURE SCHEDULE

Project	20347 - Liza Jackson Boat Ramp
Note	Our electrical specifications, required alternate fixtures shall be submitted to the engineer for prior approval a minimum of (10) ten business days prior to bid date. Any required alternate fixtures not submitted for prior approval will not be reviewed.

Luminaire Designation	Manufacturer	Catalog Number	Connected Source	Luminaire Load (w)	Lighting Source	Color Rendering Index (CRI)	Kelvin Temperature	Mounting	Comments	Prior Approval Required
DL	H E WILLIAMS	429-1L3K82S-DM-UNV-LW-GF-WM-F		120	20	LED	>80	3000	CEILING RECESSED	
FL	FIXTURE - GARCOO BRACKET - LUMEC POLE - GARCOO	FIGURE - GELU-MPLA-WM-GZF-SMB-COLOR BRACKET - ELB46A POLE - PHA-CA-68-18N-DIG-TMPLA-B-C-ULUM		240	265	LED	>70	4000	POLE MOUNT 20' - 0" AFG	
LM	H E WILLIAMS	A1Y4-K4-BS-APC-DM-UNV		120	30	LED	>80	3500	CEILING SURFACE	
M	H E WILLIAMS	SUF-214R-BS-HUA-TP-EM-DMPL-DRV-UNV		120	30	LED	>80	3000	WALL MOUNT 6' ABOVE DOOR	
P-1	FIXTURE - GARCOO BRACKET - LUMEC POLE - GARCOO	FIGURE - GELU-MPLA-WM-GZF-SMB-COLOR BRACKET - FIB46A POLE - PHA-CA-68-36S-DIG-TEMPLATE-COLOR		240	265	LED	>70	4000	POLE MOUNT 18' - 0" AFG	
P-2	FIXTURE - GARCOO BRACKET - LUMEC POLE - GARCOO	FIGURE - GELU-MPLA-WM-GZF-SMB-COLOR BRACKET - DZ-ELW46A POLE - PHA-CA-68-36S-DIG-TMPLA-TP-COLOR		240	530	LED	>70	4000	POLE MOUNT 36' - 0" AFG	
P-3	FIXTURE - MCGRIMMOND POLE - HAPCO	FIGURE - GTCALLED-DB-NUG-DS-82CC POLE - PTH-18-44-48M		120	190	LED	>70	4000	POLE MOUNT 18' - 0" AFG	
SL	PHOENIX	VBL-WTLED-CB-FGC		120	17	LED	>70	4000	WALL MOUNT 6' BELOW TOP OF POSE	
V	H E WILLIAMS	WMA-416-BS-AF-DRV-UNV		120	30	LED	>80	3000	WALL MOUNT 6' ABOVE MIRROR	
W	H E WILLIAMS	WAMH-L15-BS-TP-D82-EDL-DM-UNV		120	13	LED	>80	3000	WALL MOUNT 6' 0"	
X	H E WILLIAMS	EXTW-TCP-SF-R-WNTMT-TP-WG-O		120	5	LED	N/A	N/A	WALL MOUNT 6' ABOVE DOOR	

MECHANICAL EQUIPMENT COORDINATION SCHEDULE

(VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)

[illegible]

NOTES:

* PROVIDE BREAKER CAPABLE OF BEING LOCKED IN THE 'OFF' POSITION

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City of Fort Walton Beach
Liza Jackson Park Renovation
388 MIRACLE STRIP PARKWAY SW
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LEGEND AND NOTES

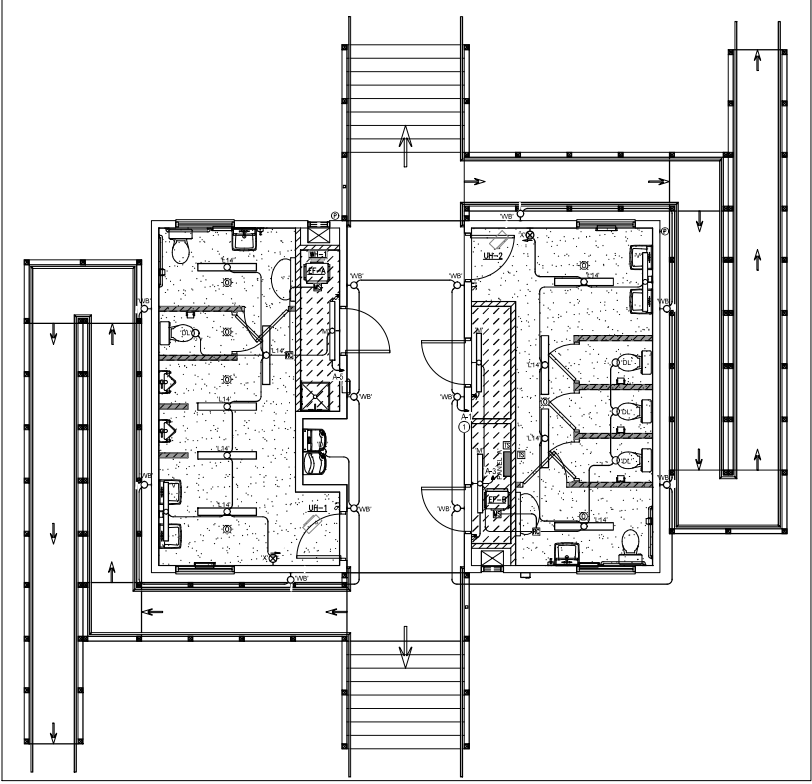
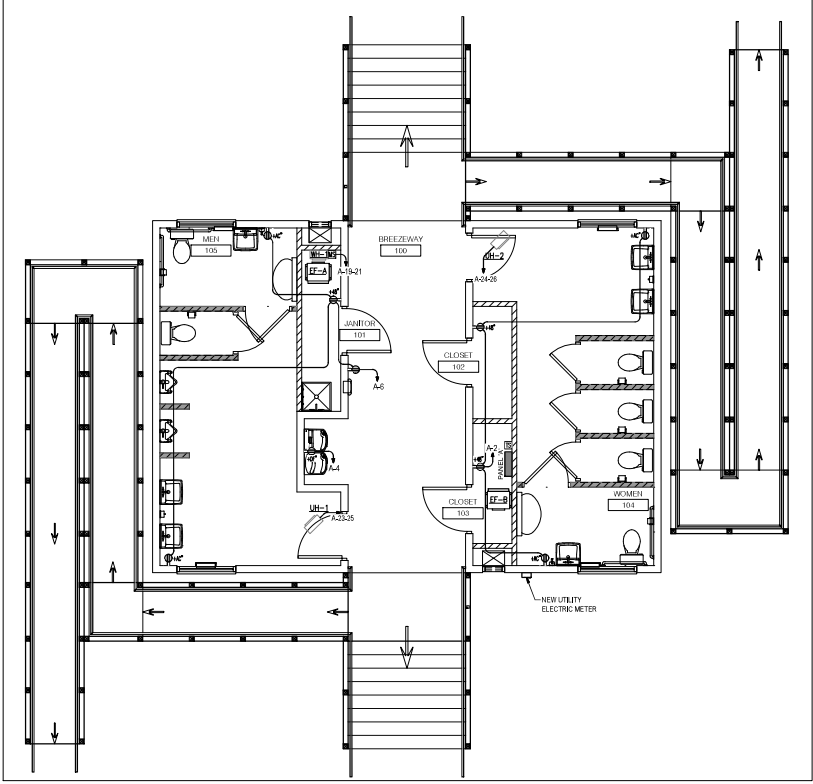
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April 01, 2025 FOR BID

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ELECTRICAL LIGHTING & POWER

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 200 No.

KEYNOTES

1. FORT WALTON BEACH CITY ENGINEER
 LIGHTING CONTRACTOR.

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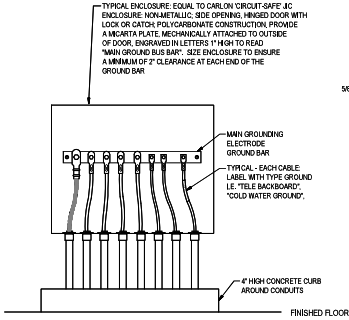
**ELECTRICAL LIGHTING
& POWER**

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City of Fort Walton Beach
Liza Jackson Park Renovation
 338 MIRACLE STRIP PARKWAY SW
 FORT WALTON BEACH, FLORIDA

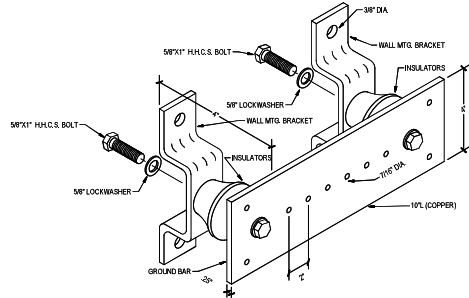
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GROUNDING SYSTEM TYPICAL ENCLOSURE

NTS



GROUND BAR NOTES

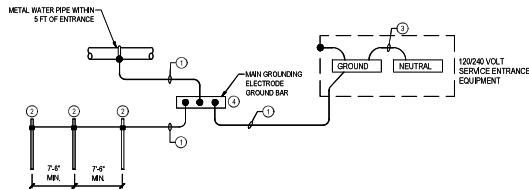
1. INSTALL ONE BAR AT EACH COMMUNICATIONS ROOM.
2. ROUTE 1/2" BARE CU IN 1" CONDUIT FROM GROUND BAR TO BUILDING ELECTRICAL SERVICE ENTRANCE GROUND.
3. CONNECT BARS WITH 1/2" BARE CU IN 1" CONDUIT.

INSULATED GROUNDING BAR DETAIL

NTS

GENERAL NOTES

1. BOND HOT AND COLD WATER PIPING SYSTEMS.
2. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
3. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
4. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.46 USING THE SERVICE PHASE CONDUCTOR SIZE.
5. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.

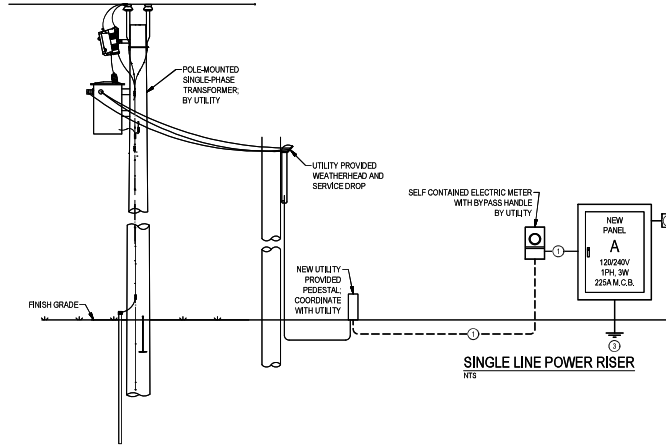


120/240V GROUNDING SYSTEM DIAGRAM

NTS

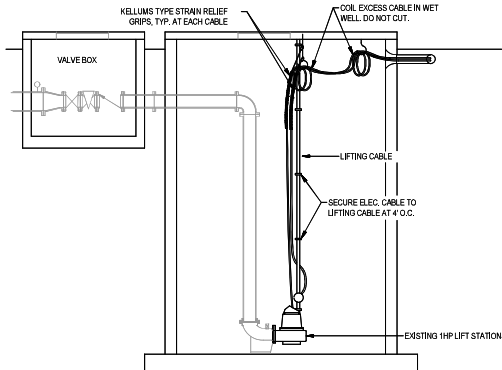
KEYNOTES

1. INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.46 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN NO. 4.
2. 16 FOOT MINIMUM 3/4" DIAMETER COPPER CLAD STEEL, SECTIONAL DRIVEN GROUND ROD.
3. INSTALL BONDING JUMPER WIRE THAT IS SIZED BASED ON NEC TABLE 250.46 OR 250.282(1) USING THE SERVICE OR SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
4. INSTALL A MAIN GROUND ELECTRODE GROUND BAR FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND ELECTRODE CONDUCTOR USING IRREVERSIBLE CONNECTORS OR EXOTHERMIC WELDER. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TIGHT-CLAMP COMPRESSION SPADE LUGS THAT MEET IEEE 807 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.



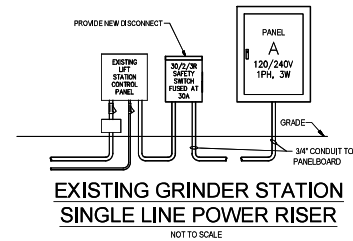
KEYNOTES

1. 2" CONDUIT WITH 3 #40 COPPER
2. INSTALL SURGE PROTECTIVE DEVICE IN BREAKER POSITION NEAREST TO NEUTRAL BAR WITH 3/16" 1/16" GND IN 3/4" LEAD LENGTH CANNOT EXCEED UL 1446 4TH EDITION TEST OF 14" REFER TO SPEC. PROVIDE INTERNAL SOA FUSING.
3. REFER TO GROUNDING DETAILS



EXISTING GRINDER STATION CONNECTION DETAIL

NOT TO SCALE



EXISTING GRINDER STATION SINGLE LINE POWER RISER



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ADD No.

April 01, 2025 FOR BID

POWER RISER AND
GROUNDING DETAILS

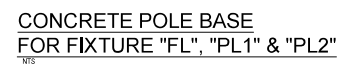
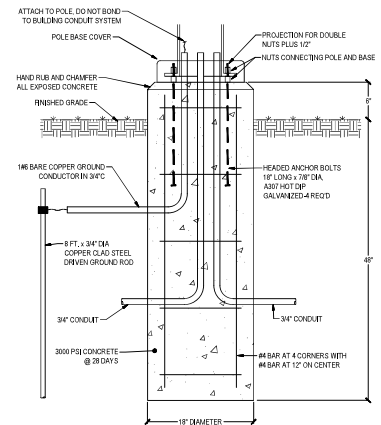
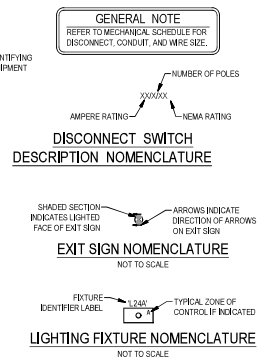
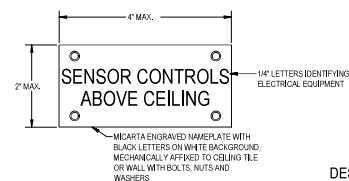
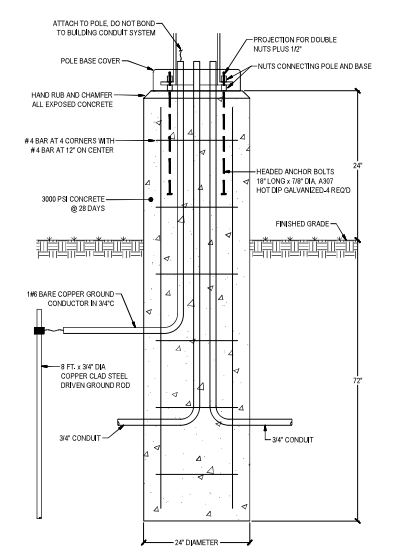
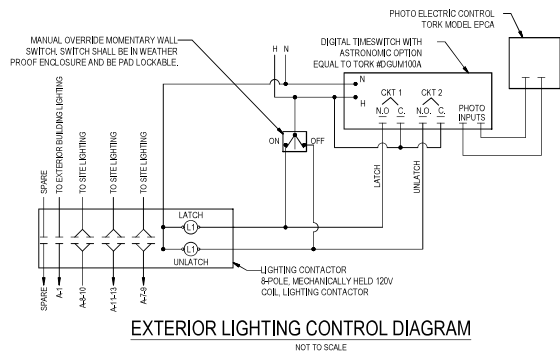
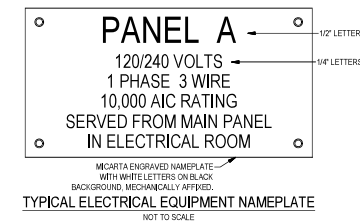
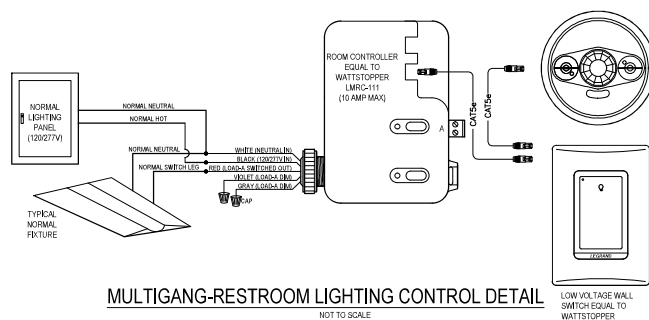
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City of Fort Walton Beach
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- NOTES**
1. REMOVE ALL POLE FEATURES IN AREA OF WORK. DEMOLISH POLE FEATURE. POLE AND ABANDON CONDUIT.
- KEYNOTES**
- ① EXISTING PAVILION TO BE REMOVED. REMOVE EXISTING ELECTRICAL SYSTEMS AND CONDUCTORS. ABANDON EXISTING CONDUIT IN PLACE.
 - ② EXISTING PAVILION TO REMAIN. REMOVE EXISTING ELECTRICAL SYSTEMS AND CONDUCTORS. ABANDON EXISTING CONDUIT IN PLACE.

ELECTRICAL SITE PLAN DEMOLITION



24047
2025/10/01

April 01, 2025 FOR BID

**ELECTRICAL SITE PLAN
DEMOLITION**

ED1.00

City of Fort Walton Beach
Liza Jackson Park Renovation
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DATE	BY	FOR
APRIL 01, 2025	JDF	FOR BID
REVISION	DATE	DESCRIPTION

This plan and the sheets and schedules included herein constitute the entire contract for the project. All other plans, specifications, and schedules are hereby rejected. The project shall be completed in accordance with the schedule of completion and the schedule of completion shall be the basis for the project. The project shall be completed in accordance with the schedule of completion and the schedule of completion shall be the basis for the project.